RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: $\frac{10/525, 292}{5 \text{ ource}}$ Date Processed by STIC: $\frac{3/4/05}{2}$

ENTERED



PCT

RAW SEQUENCE LISTING DATE: 03/04/2005
PATENT APPLICATION: US/10/525,292 TIME: 12:15:21

Input Set : A:\BBC166 Seqlist.txt

Output Set: N:\CRF4\03042005\J525292.raw

```
3 <110> APPLICANT: Krause, Hans Juergen
             Baust, Lisa
             Dickes, Michael
      7 <120> TITLE OF INVENTION: FORMULATION OF HUMAN ANTIBODIES FOR TREATING TNF-ALPA
             ASSOCIATED DISORDERS
     10 <130> FILE REFERENCE: BBC-166
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/525,292
C--> 13 <141> CURRENT FILING DATE: 2005-02-16
     15 <160> NUMBER OF SEQ ID NOS: 34
     17 <170> SOFTWARE: FastSEQ for Windows Version 4.0
     19 <210> SEQ ID NO: 1
     20 <211> LENGTH: 108
     21 <212> TYPE: PRT
     22 <213> ORGANISM: Artificial Sequence
     24 <220> FEATURE:
     25 <223> OTHER INFORMATION: mutated human antibody
     27 <400> SEQUENCE: 1
     28 Pro Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
                         5
     30 Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Arg Asn
     32 Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
     34 Ile Tyr Ala Ala Ser Thr Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
                                55
     36 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
                            70
     38 Pro Glu Asp Val Ala Thr Tyr Tyr Cys Gln Arg Tyr Asn Arg Ala Pro
                       85
     40 Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
                   100
                                        105
     44 <210> SEQ ID NO: 2
     45 <211> LENGTH: 122
    46 <212> TYPE: PRT
     47 <213> ORGANISM: Artificial Sequence
     49 <220> FEATURE:
     50 <223> OTHER INFORMATION: mutated human antibody
     52 <400> SEQUENCE: 2
     53 Pro Glu Val Gln Leu Val Glu Ser Gly Gly Leu Val Gln Pro Gly
     55 Arg Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asp Asp
     57 Tyr Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
```

DATE: 03/04/2005

PATENT APPLICATION: US/10/525,292 TIME: 12:15:21 Input Set : A:\BBC166 Seglist.txt Output Set: N:\CRF4\03042005\J525292.raw 40 59 Val Ser Ala Ile Thr Trp Asn Ser Gly His Ile Asp Tyr Ala Asp Ser 61 Val Glu Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu 70 63 Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr 90 65 Cys Ala Lys Val Ser Tyr Leu Ser Thr Ala Ser Ser Leu Asp Tyr Trp 100 105 67 Gly Gln Gly Thr Leu Val Thr Val Ser Ser 115 120 71 <210> SEQ ID NO: 3 72 <211> LENGTH: 10 73 <212> TYPE: PRT 74 <213> ORGANISM: Artificial Sequence 76 <220> FEATURE: 77 <223> OTHER INFORMATION: mutated human antibody 79 <220> FEATURE: 80 <221> NAME/KEY: VARIANT 81 <222> LOCATION: 10 82 <223> OTHER INFORMATION: Xaa = Thr or Ala 84 <400> SEQUENCE: 3 W--> 85 Pro Gln Arg Tyr Asn Arg Ala Pro Tyr Xaa 86 1 89 <210> SEQ ID NO: 4 90 <211> LENGTH: 13 91 <212> TYPE: PRT 92 <213> ORGANISM: Artificial Sequence 94 <220> FEATURE: 95 <223> OTHER INFORMATION: mutated human antibody 97 <220> FEATURE: 98 <221> NAME/KEY: VARIANT 99 <222> LOCATION: 13 100 <223> OTHER INFORMATION: Xaa = Tyr or Asn 102 <400> SEQUENCE: 4 W--> 103 Pro Val Ser Tyr Leu Ser Thr Ala Ser Ser Leu Asp Xaa 104 1 10 107 <210> SEQ ID NO: 5 108 <211> LENGTH: 8 109 <212> TYPE: PRT 110 <213> ORGANISM: Artificial Sequence 112 <220> FEATURE: 113 <223> OTHER INFORMATION: mutated human antibody 115 <400> SEQUENCE: 5 116 Pro Ala Ala Ser Thr Leu Gln Ser 117 1 120 <210> SEQ ID NO: 6

RAW SEQUENCE LISTING

121 <211> LENGTH: 18 122 <212> TYPE: PRT

RAW SEQUENCE LISTING DATE: 03/04/2005 PATENT APPLICATION: US/10/525,292 TIME: 12:15:21

Input Set : A:\BBC166 Seqlist.txt
Output Set: N:\CRF4\03042005\J525292.raw

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123 <213> ORGANISM: Artificial Sequence
     125 <220> FEATURE:
     126 <223> OTHER INFORMATION: mutated human antibody
     128 <400> SEQUENCE: 6
     129 Pro Ala Ile Thr Trp Asn Ser Gly His Ile Asp Tyr Ala Asp Ser Val
     130 1
                          5
     131 Glu Gly
     135 <210> SEQ ID NO: 7
     136 <211> LENGTH: 12
     137 <212> TYPE: PRT
     138 <213> ORGANISM: Artificial Sequence
     140 <220> FEATURE:
     141 <223> OTHER INFORMATION: mutated human antibody
     143 <400> SEOUENCE: 7
     144 Pro Arg Ala Ser Gln Gly Ile Arg Asn Tyr Leu Ala
     145 1
                                              10
     148 <210> SEQ ID NO: 8
     149 <211> LENGTH: 6
     150 <212> TYPE: PRT
     151 <213> ORGANISM: Artificial Sequence
     153 <220> FEATURE:
     154 <223> OTHER INFORMATION: mutated human antibody
     156 <400> SEQUENCE: 8
     157 Pro Asp Tyr Ala Met His
     158 1
     161 <210> SEQ ID NO: 9
     163 <400> SEQUENCE: 9
W--> 164 000
     166 <210> SEQ ID NO: 10
     168 <400> SEQUENCE: 10
W--> 169 000
     171 <210> SEQ ID NO: 11
     172 <211> LENGTH: 10
     173 <212> TYPE: PRT
     174 <213> ORGANISM: Artificial Sequence
     176 <220> FEATURE:
     177 <223> OTHER INFORMATION: mutated human antibody
     179 <400> SEQUENCE: 11
     180 Pro Gln Lys Tyr Asn Ser Ala Pro Tyr Ala
     184 <210> SEQ ID NO: 12
     185 <211> LENGTH: 10
     186 <212> TYPE: PRT
     187 <213> ORGANISM: Artificial Sequence
     189 <220> FEATURE:
     190 <223> OTHER INFORMATION: mutated human antibody
     192 <400> SEQUENCE: 12
     193 Pro Gln Lys Tyr Asn Arg Ala Pro Tyr Ala
     194 1
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RAW SEQUENCE LISTING DATE: 03/04/2005 PATENT APPLICATION: US/10/525,292 TIME: 12:15:21

Input Set : A:\BBC166 Seqlist.txt

Output Set: N:\CRF4\03042005\J525292.raw

197 <210> SEQ ID NO: 13 198 <211> LENGTH: 10 199 <212> TYPE: PRT 200 <213> ORGANISM: Artificial Sequence 202 <220> FEATURE: 203 <223> OTHER INFORMATION: mutated human antibody 205 <400> SEQUENCE: 13 206 Pro Gln Lys Tyr Gln Arg Ala Pro Tyr Thr 207 1 210 <210> SEQ ID NO: 14 211 <211> LENGTH: 10 212 <212> TYPE: PRT 213 <213 > ORGANISM: Artificial Sequence 215 <220> FEATURE: 216 <223> OTHER INFORMATION: mutated human antibody 218 <400> SEQUENCE: 14 219 Pro Gln Lys Tyr Ser Ser Ala Pro Tyr Thr 220 1 223 <210> SEQ ID NO: 15 224 <211> LENGTH: 10 225 <212> TYPE: PRT 226 <213> ORGANISM: Artificial Sequence 228 <220> FEATURE: 229 <223> OTHER INFORMATION: mutated human antibody 231 <400> SEQUENCE: 15 232 Pro Gln Lys Tyr Asn Ser Ala Pro Tyr Thr **233** 1 236 <210> SEQ ID NO: 16 237 <211> LENGTH: 10 238 <212> TYPE: PRT 239 <213> ORGANISM: Artificial Sequence 241 <220> FEATURE: 242 <223> OTHER INFORMATION: mutated human antibody 244 <400> SEQUENCE: 16 245 Pro Gln Lys Tyr Asn Arg Ala Pro Tyr Thr 246 1 249 <210> SEQ ID NO: 17 250 <211> LENGTH: 10 251 <212> TYPE: PRT 252 <213> ORGANISM: Artificial Sequence 254 <220> FEATURE: 255 <223> OTHER INFORMATION: mutated human antibody 257 <400> SEQUENCE: 17 258 Pro Gln Lys Tyr Asn Ser Ala Pro Tyr Tyr 259 1 10 5 262 <210> SEQ ID NO: 18 263 <211> LENGTH: 10 264 <212> TYPE: PRT

265 <213> ORGANISM: Artificial Sequence

RAW SEQUENCE LISTING DATE: 03/04/2005 PATENT APPLICATION: US/10/525,292 TIME: 12:15:21

Input Set : A:\BBC166 Seqlist.txt

Output Set: N:\CRF4\03042005\J525292.raw

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267 <220> FEATURE:
268 <223> OTHER INFORMATION: mutated human antibody
270 <400> SEQUENCE: 18
271 Pro Gln Lys Tyr Asn Ser Ala Pro Tyr Asn
272 1
275 <210> SEQ ID NO: 19
276 <211> LENGTH: 10
277 <212> TYPE: PRT
278 <213> ORGANISM: Artificial Sequence
280 <220> FEATURE:
281 <223> OTHER INFORMATION: mutated human antibody
283 <400> SEQUENCE: 19
284 Pro Gln Lys Tyr Thr Ser Ala Pro Tyr Thr
                     5
288 <210> SEQ ID NO: 20
289 <211> LENGTH: 10
290 <212> TYPE: PRT
291 <213> ORGANISM: Artificial Sequence
293 <220> FEATURE:
294 <223> OTHER INFORMATION: mutated human antibody
296 <400> SEQUENCE: 20
297 Pro Gln Lys Tyr Asn Arg Ala Pro Tyr Asn
298 1
301 <210> SEQ ID NO: 21
302 <211> LENGTH: 10
303 <212> TYPE: PRT
304 <213> ORGANISM: Artificial Sequence
306 <220> FEATURE:
307 <223> OTHER INFORMATION: mutated human antibody
309 <400> SEQUENCE: 21
310 Pro Gln Lys Tyr Asn Ser Ala Ala Tyr Ser
311 1
                    5
                                        10
314 <210> SEQ ID NO: 22
315 <211> LENGTH: 10
316 <212> TYPE: PRT
317 <213> ORGANISM: Artificial Sequence
319 <220> FEATURE:
320 <223> OTHER INFORMATION: mutated human antibody
322 <400> SEQUENCE: 22
323 Pro Gln Gln Tyr Asn Ser Ala Pro Asp Thr
324 1
                     5
                                        10
327 <210> SEQ ID NO: 23
328 <211> LENGTH: 10
329 <212> TYPE: PRT
330 <213> ORGANISM: Artificial Sequence
332 <220> FEATURE:
333 <223> OTHER INFORMATION: mutated human antibody
335 <400> SEQUENCE: 23
336 Pro Gln Lys Tyr Asn Ser Asp Pro Tyr Thr
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RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/10/525,292

DATE: 03/04/2005 TIME: 12:15:22

Input Set : A:\BBC166 Seqlist.txt

Output Set: N:\CRF4\03042005\J525292.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; Xaa Pos. 10/
Seq#:4; Xaa Pos. 1/3

VERIFICATION SUMMARYDATE: 03/04/2005PATENT APPLICATION: US/10/525,292TIME: 12:15:22

Input Set : A:\BBC166 Seglist.txt

Output Set: N:\CRF4\03042005\J525292.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application Number

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:85 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0 L:103 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0

L:164 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (9) SEQUENCE: L:169 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (10) SEQUENCE: